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NPIC/R-366/64  
June 1964

PHOTOGRAPHIC INTERPRETATION REPORT

# AIR DEFENSE (PVO) ELECTRONIC FACILITIES AT SELECTED LOCATIONS, USSR



CIA

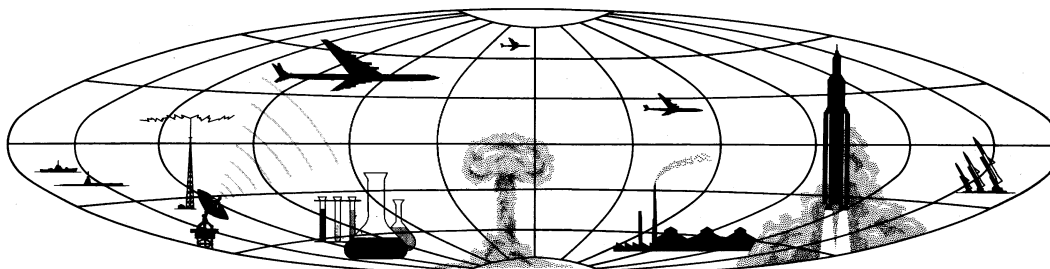


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Declass Review by NIMA/DOD



NSA review(s) completed.

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GROUP 1  
Excluded from automatic  
downgrading and declassification

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# AIR DEFENSE (PVO) ELECTRONIC FACILITIES AT SELECTED LOCATIONS, USSR

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## INTRODUCTION

This report answers two requirements which overlap in both subject matter and location. The first requested additional information on microwave sites in the Olenegorsk (Olenya) area; the second requested a search for air defense (PVO) associated electronic sites at 14 suspect areas and at such other locations as might be noted on photography.

Both searches produced substantial intelligence information. With respect to microwave in the Olenegorsk area, four confirmed microwave antennas were found which constitute a chain extending in a roughly north-south direction. In regard to air defense, only two of the listed areas -- Olenegorsk and Nikolayevsk-Na-Amure -- were covered by photography suitable for interpretation. In these two areas, however, as well as in a number of others examined pursuant to this search (Figure 1), many items of specific intelligence interest were noted.

Among those items is that antennas possibly associated with SWAMP and MARKHAM (PVO data systems) have been identified. Another is that TALL KING antennas may be deployed in pairs. (A good example of this occurs at Sortavala, one of the Leningrad outer radar sites, and has been reported in detail together with the nine other Leningrad circumferential radar sites. 1/) In several instances where the second TALL KING could not be observed, an alternate location and full support was provided for it, as typified by sites near Dikson and Zhigansk. A third significant item is that the number of components associated with a PVO headquarters can be quite large, reaching a magnitude apparently not previously realized. Olenegorsk, perhaps the most striking example of this, has at least seven separate electronic sites (Figures 2-8), and for this reason is presented in substantial detail. Neither available time nor photographic quality permits other areas to be treated in as detailed a manner. How-

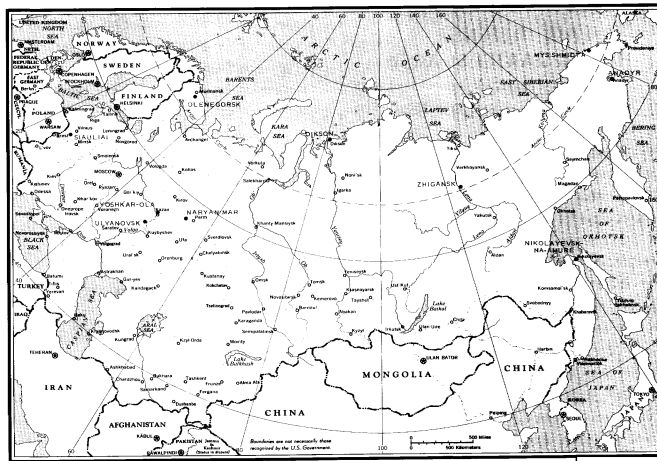


FIGURE 1. LOCATION OF INSTALLATIONS DISCUSSED IN THIS REPORT.

ever, a photograph and brief description of components has been prepared to facilitate comparison (Table 1).

Table 1. Summary of Facilities at Installations Described in This Report

| OLENEGORSK<br>Air Defense<br>Headquarters Area                           | NARYAN-MAR<br>Air Defense<br>Air Warning Sites*                                     | DIKSON<br>Air Defense<br>Air Warning Sites*     | MYS SHIMDTA<br>Air Defense<br>Air Warning Sites*        | ANADYR<br>Air Defense<br>Headquarters Area                           | NIKOLAYEVSK-<br>NA-AMURE<br>Air Defense<br>Air Warning Sites | ZHIGANSK<br>Air Defense<br>Air Warning Site | YOSHKAR-OLA<br>Air Defense<br>Headquarters Area                             | ULYANOVSK<br>Air Traffic<br>Control | SHALAI<br>Air Defense<br>Air Warning Site** |
|--|---|---|---|--|--|---|---|-------------------------------------|---|
| Headquarters Center (BAR LOCK, SPOON REST, STONE CAKE, TOKEN, ROCK CAKE) | Radar Site 1 (TALL KING)  | TALL KING<br>Radar<br>Site and Alternate        | Radar Site 1 (TALL KING)                                | Radar Site 1 (BAR LOCK)  | Radar Site (BAR LOCK, others U/I)                            | TALL KING<br>Site and Alternate             | Radar Site (BAR LOCK, STONE CAKE, others U/I)                               | Radar Site (TOKEN-type)             | Radar Site (BAR LOCK, STONE CAKE)           |
| Ground-Air-Ground Commo Site (probable MARKHAM)                          | Radar Site 2 (BAR LOCK, SPOON REST, KNIFE REST, A and B, poss FISH NET, STONE CAKE) | Radar Site 2 (BAR LOCK, SPOON REST, STONE CAKE) | Radar Site 2 (BIG MESH, FLAT FACE, SPOON REST, one U/I) | Radar Site 2 (BIG MESH, SPOON REST, KNIFE REST, A and B, 2 FISH NET) | HF Commo Site  | Support area                                | Operations Area   |                                     | Operations Area                             |
| Microwave and HF Commo Site (possible SWAMP)                             | Air Defense Control Center and HF Antenna Field                                     | HF Commo Site 1                                 | Radar Site 3 (BAR LOCK, STONE CAKE, others U/I)         | HF Commo Site 1  | Reported Air Defense Sector Headquarters                     |   | Communications Site (similar to Olenegorsk ground-ground site)              |                                     |   |
| Regional HF Commo Transmitting Center                                    | HF Commo Site 1   | HF Commo Site 2                                 | HF Commo Site 1   | HF Commo Site 2  |  |   | Possible Communications Site (similar to Olenegorsk ground-air-ground site) |                                     |   |
| Regional HF Commo Receiving Center                                       | HF Commo Site 2   | Possible SMALL CROSS Navigational Antenna       | HF Commo Site 2   |  |  |   |   |                                     |   |
| Microwave Antenna 3  | HF Commo Site 3 and airfield operations area  | HF Commo Site 3                                 |   |  |  |   |   |                                     |   |
| Microwave Antenna 4  |   | HF Commo Site 4                                 |   |  |  |   |   |                                     |   |

\*Would have been classified as a headquarters area except that no fighter-interceptor aircraft were observed at nearby airfield.

\*\*Would have been classified as a headquarters area except that no communications facilities were observed in immediate vicinity.



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#### Air Defense Microwave and HF Communications Site

Location: 0.8 nm NE of the headquarters

Coordinates: 68-09-45N 33-32-50E

Remarks: This facility, concealed in woods, contains a microwave antenna (designated as antenna 2) atop a tower several hundred feet high, three pole masts (probably HF), and a single low lattice tower of unidentified purpose (Figures 5 and 8). The proximity of this site to the headquarters center and the fact that it is in the chain of four microwave antennas noted in this report indicate that it is a ground-ground relay link. In view of this, it is believed that this site may constitute a SWAMP signature.

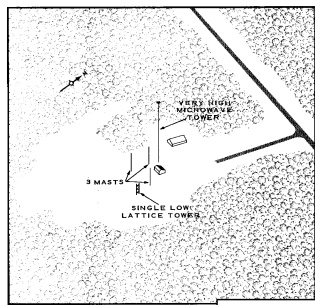


FIGURE 5. OLENEGORSK MICROWAVE (ANTENNA 2) AND HF COMMUNICATIONS SITE.

#### Regional HF Communications Transmitting Center

Location: 1.5 nm south of the center of Olenegorsk

Coordinates: 68-07-30N 33-15-00E

Remarks: The antenna field (Figures 6 and 8) is composed of 14 rhombic transmitting antennas arranged in pairs of day-night types. There is also a local radio broadcast vertical radiator, several hundred feet tall, which has a separate transmitter building. The support area is self-sustaining, containing more than 25 mixed-type buildings. Principal structures are 2 barracks buildings, a large administration building, a diesel-electric power plant, a water storage tower, and many shops, sheds, and utility buildings.

This facility is classified as a center because of the number and type of antennas, the size of the support area, and the fact that the antennas are oriented toward numerous correspondents. Exact orientation of the antennas in terms of their correspondents has not yet been determined because of technical mensuration difficulties caused by the obliquity of the photography. However, an initial plot shows that Moscow, Leningrad, and Murmansk are all likely correspondents.

#### Regional HF Communications Receiving Center

Location: 6 nm north of the center of Olenegorsk

Coordinates: 68-14-00N 33-16-00E

Remarks: This center (Figures 7 and 8) includes 13 identifiable fishbone antennas (more may exist) of the 5-3-3-5 configuration. This is the same type of antenna previously reported as being utilized in command links between Cuba and Moscow, 4/ and more recently at certain Soviet MRBM, IRBM, and ICBM launch areas. From Olenegorsk, it is only 13 nm north-northeast to the Taybola

IRBM Complex and, therefore, in this case the rhombic and fishbone antennas could serve both the IRBM launch complex and air defense command link requirements.

#### Microwave Antenna 3

Location: 8.5 nm NE of Olenegorsk Airfield; one nm south of Olenegorsk SAM

Coordinates: 68-11-45N 33-49-00E

Remarks: The facility (Figure 8) consists of a single building, and a micro-

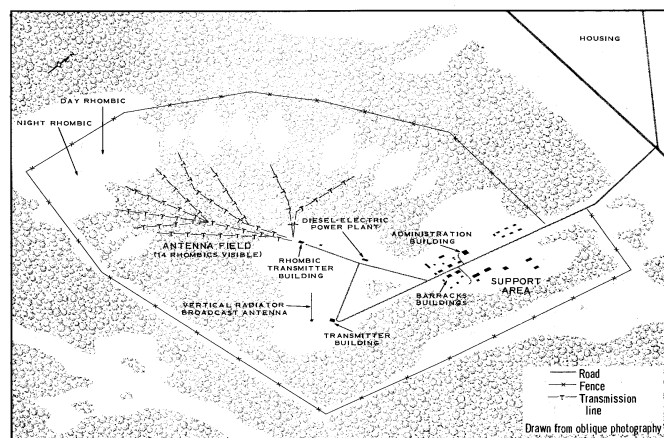


FIGURE 6. OLENEGORSK REGIONAL HF COMMUNICATIONS TRANSMITTING CENTER.

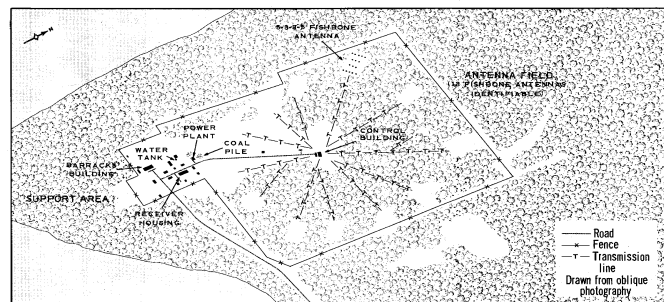


FIGURE 7. OLENEGORSK REGIONAL HF COMMUNICATIONS RECEIVING CENTER.

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wave antenna which is atop a tower about 300 feet high. Further details on the antenna cannot be determined, as explained earlier.

#### Microwave Antenna 4

Location: 18 nm north of Olenegorsk Airfield; centered approximately equidistant from the three launch sites of the Taybola IRBM Complex

Coordinates: 68-27-00N 33-23-00E

Remarks: The microwave antenna and support building (Figure 8) appear

identical to those at microwave antenna 3, but further details are not possible. This tower is referenced in [redacted] and reported in NPIC/R-201/64. 5/

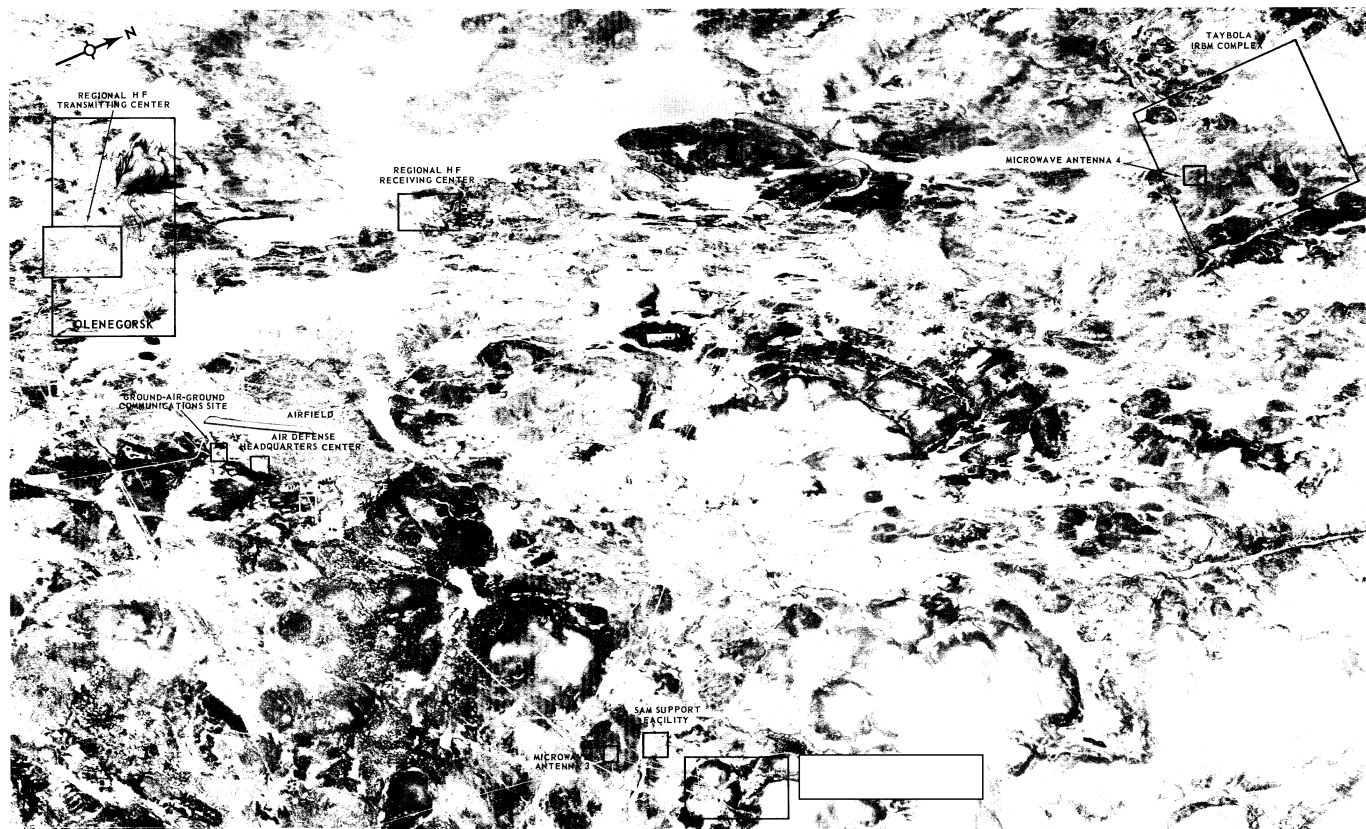
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FIGURE 8. OLENEGORSK AIR DEFENSE HEADQUARTERS AREA AND ASSOCIATED FACILITIES.

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## NARYAN-MAR AIR DEFENSE AIR WARNING SITES

Air defense electronic facilities in the Naryan-Mar area (Figure 9) consist of a TALL KING radar site, a radar site with BAR LOCK and other antennas, an air defense control center with an associated HF communications antenna field, and three other HF communications sites. The aircraft observed at Naryan-Mar Airfield were not fighter-interceptor types or Naryan-Mar would be considered an air defense headquarters area.

### Radar Site 1 (TALL KING)

Location: approximately 4 nm NE of Naryan-Mar Airfield  
Coordinates: 67-39N 53-11E

Remarks: The site contains a TALL KING antenna, a diesel-electric generator with 8 revetted fuel-oil tanks, and a control-support area consisting of 6 small buildings.

### Radar Site 2

Location: just NW of radar site 1  
Coordinates: 67-40N 53-10E

Remarks: The site contains BAR LOCK, SPOON REST, KNIFE REST A and B, and possible FISH NET and STONE CAKE. There are also five small support buildings and one larger barracks building.

### Control Center and HF Communications Antenna Field

Location: adjacent to radar site 2  
Coordinates: 67-40N 53-08E

Remarks: The site includes a large administration/control building, 7 smaller barracks-type quarters buildings, a vehicle shed, a maintenance building, and 15 storage sheds. The HF communications antenna field consists of 7 pairs (14 masts) of horizontal-wire doublet antennas with associated radio shacks.

### HF Communications Site 1

Location: just NW of the control center  
Coordinates: 67-40N 53-08E

Remarks: The site consists of two pairs (four masts) of horizontal-wire doublet antennas with a centrally located control building.

### HF Communications Site 2

Location: approximately 1.4 nm NNE of the airfield  
Coordinates: 67-38N 53-04E

Remarks: The site consists of 3 pairs (6 masts) of horizontal-wire doublet

antennas, a control building, and 3 small utility buildings.

### HF Communications Site 3 and Airfield Operations

Location: just off NW end of airfield runway  
Coordinates: 67-38N 53-02E

Remarks: The site is collocated with the airfield operations building and weather station. The antenna field includes 16 visible masts but the total number is not able to be determined.

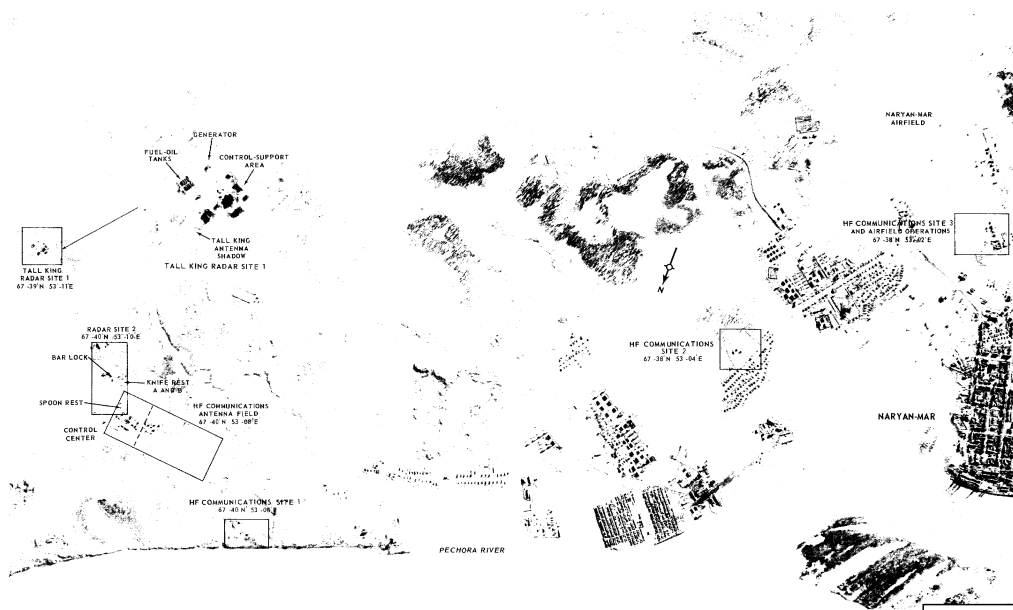


FIGURE 9. NARYAN-MAR AIR DEFENSE AIR WARNING SITES

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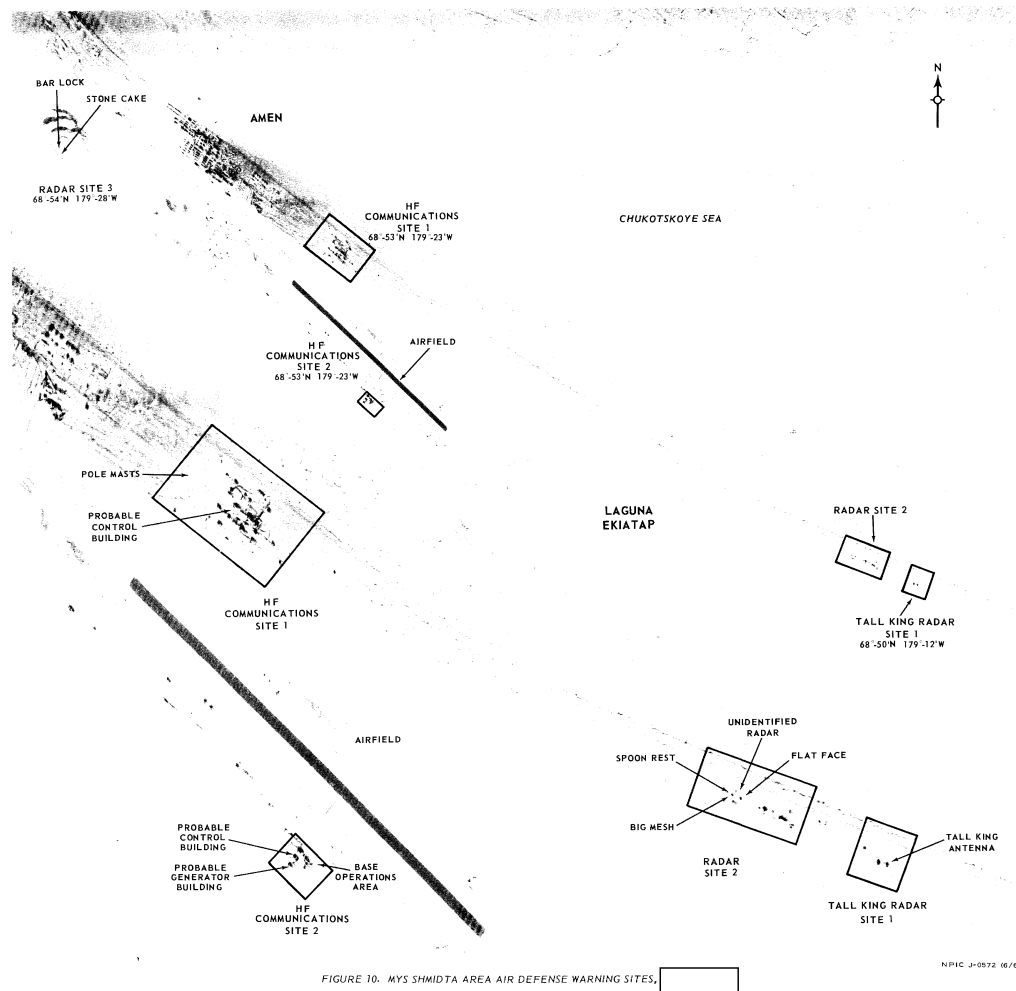


FIGURE 10. MYS SHMIDTA AREA AIR DEFENSE WARNING SITES.

## MYS SHMIDTA

### AIR DEFENSE AIR WARNING SITES

This installation is composed of a TALL KING radar air warning site, 2 other radar sites, and 2 communications sites (Figure 10). No interceptor-type aircraft were observed at the airfield or this installation would have been classified as an air defense headquarters.

#### Radar Site 1 (TALL KING)

Location: 4.5 nm SE of Mys Shmidt  
Airfield [REDACTED]  
Coordinates: 68-50-30N 179-12-00W

Remarks: This site contains a single TALL KING antenna, a few associated support buildings, a diesel-electric generator, and a fuel-oil storage area.

#### Radar Site 2

Location: immediately NW of the TALL KING site  
Coordinates and photography: same as above

Remarks: The site contains a BIG MESH, a FLAT FACE, a SPOON REST, and an unidentified radar, all on mounds. In addition, there is a support building for the radar crew and several small maintenance sheds which apparently serve both radar sites.

#### Radar Site 3

Location: 2.5 nm NW of the airfield  
Coordinates: 68-54-30N 179-28-30W

Remarks: A BAR LOCK and a STONE CAKE are identifiable at the site; other radar antennas are present but are not

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able to be identified. In addition, the site contains a radar crew quarters building, a diesel-electric generator, and several small support buildings.

**HF Communications Site 1**

Location: just north of the NW end of Mys Shmidt Airfield  
Coordinates: 68-53-30N 179-23-30W

Remarks: HF pole mast antennas, the specific number and type of which cannot be determined, are scattered through an antenna field around a transmitter/receiver control building and 4 sizable support buildings. Other buildings in the area are apparently for base operations.

**HF Communications Site 2**

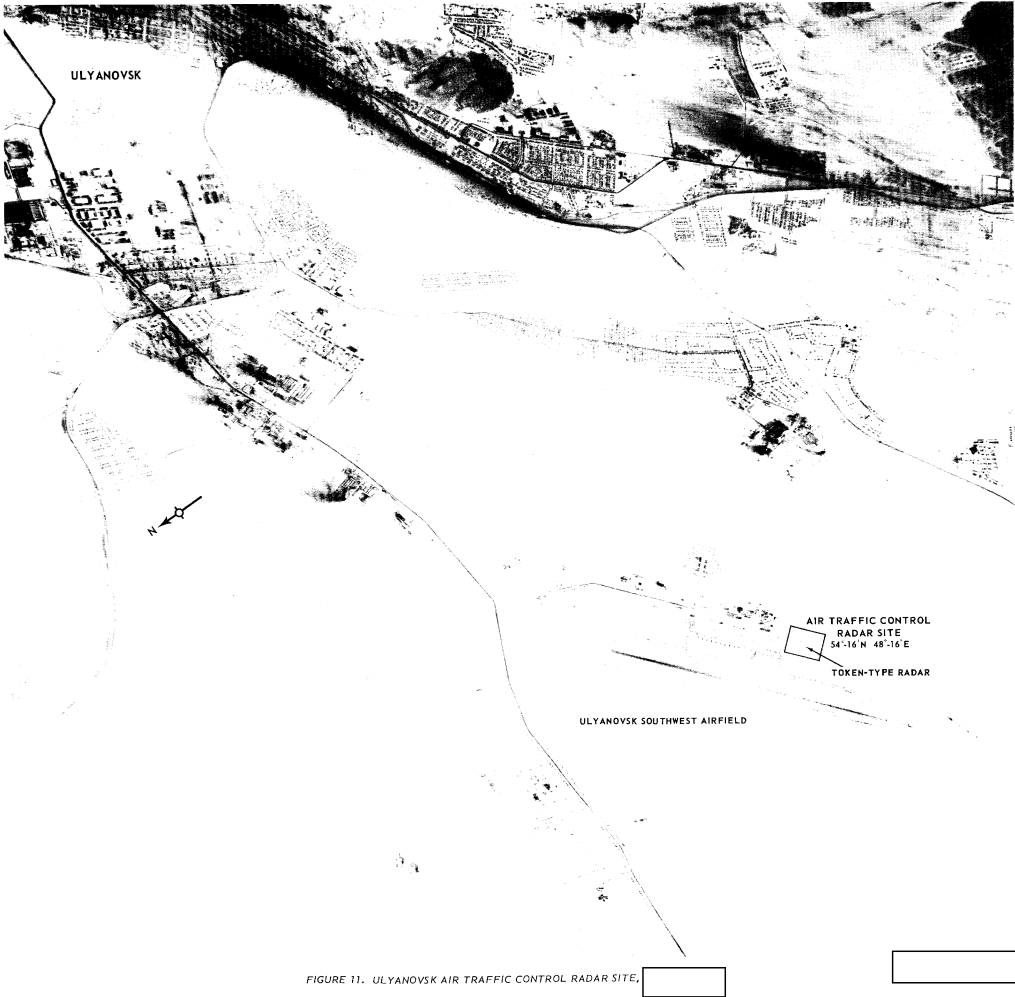
Location: at the base operations and maintenance area just south of the runway center  
Coordinates: 68-52-40N 179-23-30W

Remarks: A number of HF pole mast antennas, probably of the dipole and rhombic types, are spread around the base operations area, which contains a probable control building and a probable diesel-electric generator.

**ULYANOVSK  
AIR TRAFFIC CONTROL  
Radar Site**

Location: south of runway and just west of the operations area at Ulyanovsk Southwest Airfield  
Coordinates: 54-16N 48-16E

Remarks: The site (Figure 11) con-



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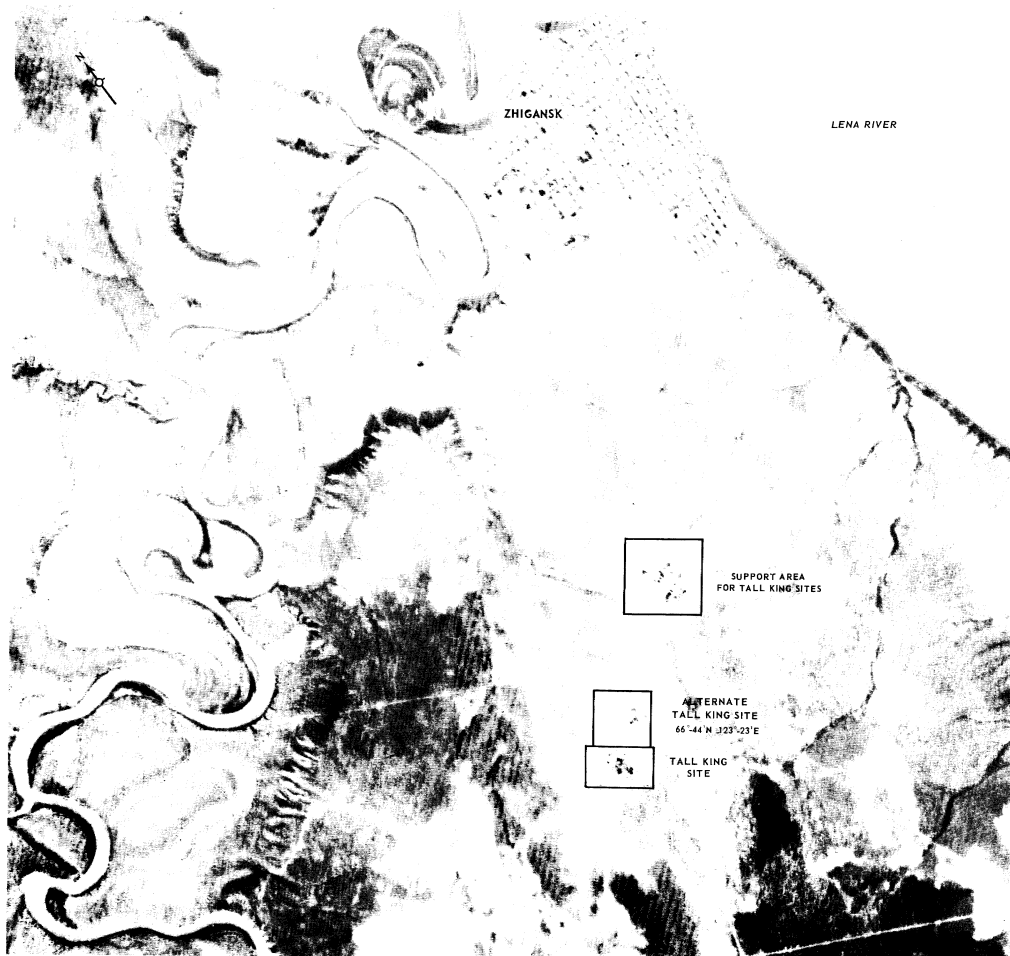


FIGURE 12. ZHIGANSK AIR DEFENSE AIR WARNING SITE, [REDACTED]

tains one radar antenna, not specifically identifiable but of the TOKEN type, situated atop a mound. It is considered to be utilized for air traffic control because of its position and the lack of associated antennas such as height finders, etc.

### ZHIGANSK AIR DEFENSE AIR WARNING SITES

In the Zhigansk area, a TALL KING radar site is positively identified and all the components for a second, alternate site can also be identified except for the antenna (Figure 12). However, Mission [REDACTED] photography did not cover Zhigansk Airfield [REDACTED] nor did the quality of the available photography permit identification of communications antennas suitable to support the TALL KING sites.

#### TALL KING Radar Site and Alternate Site

Location: 2 nm south of Zhigansk  
Coordinates: 66-44-15N 123-22-40E

Remarks: The TALL KING site with the visible antenna also contains a monitor-roof building, 2 slightly smaller support buildings, and a diesel-electric generator with six revetted fuel-oil storage tanks. The alternate site, just northeast of the first site, is virtually identical except that no TALL KING antenna is observed.

#### Support Area

A support area, common to both sites, is situated about 0.8 nm to the northeast. It contains at least nine buildings and a number of other objects, but photographic quality precludes detailed identification.

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## ANADYR AIR DEFENSE HEADQUARTERS AREA

This installation is composed of two air warning radar sites and two HF communications sites (Figure 13). These facilities, together with the support areas and the presence of more than 20 interceptor aircraft at Anadyr Leninka Airfield appear sufficient to classify this installation as an air defense headquarters.

### Radar Site 1

Location: At Anadyr Mys Nizmenny Airfield

Coordinates: 68-47-45N 177-34-45E

Remarks: The site contains BAR LOCK situated on a mound and several small radar crew quarters buildings.

### Radar Site 2

Location: 0.7 nm ESE of the center of Mys Nizmenny Airfield

Coordinates: 68-47-25N 177-36-10E

Remarks: The site includes a BIG MESH, SPOON REST, KNIFE REST A and B, and two FISH NET. There are also radar crew quarters buildings, a bunker, and several small unidentified objects.

### HF Communications Site 1

Location: 4 nm ESE of Mys Nizmenny Airfield; 3.2 nm north of Anadyr Leninka Airfield

Coordinates: 64-46-10N 177-41-30E

Remarks: The site consists of a large antenna field with numerous pole masts, a transmitter building, a probable diesel-

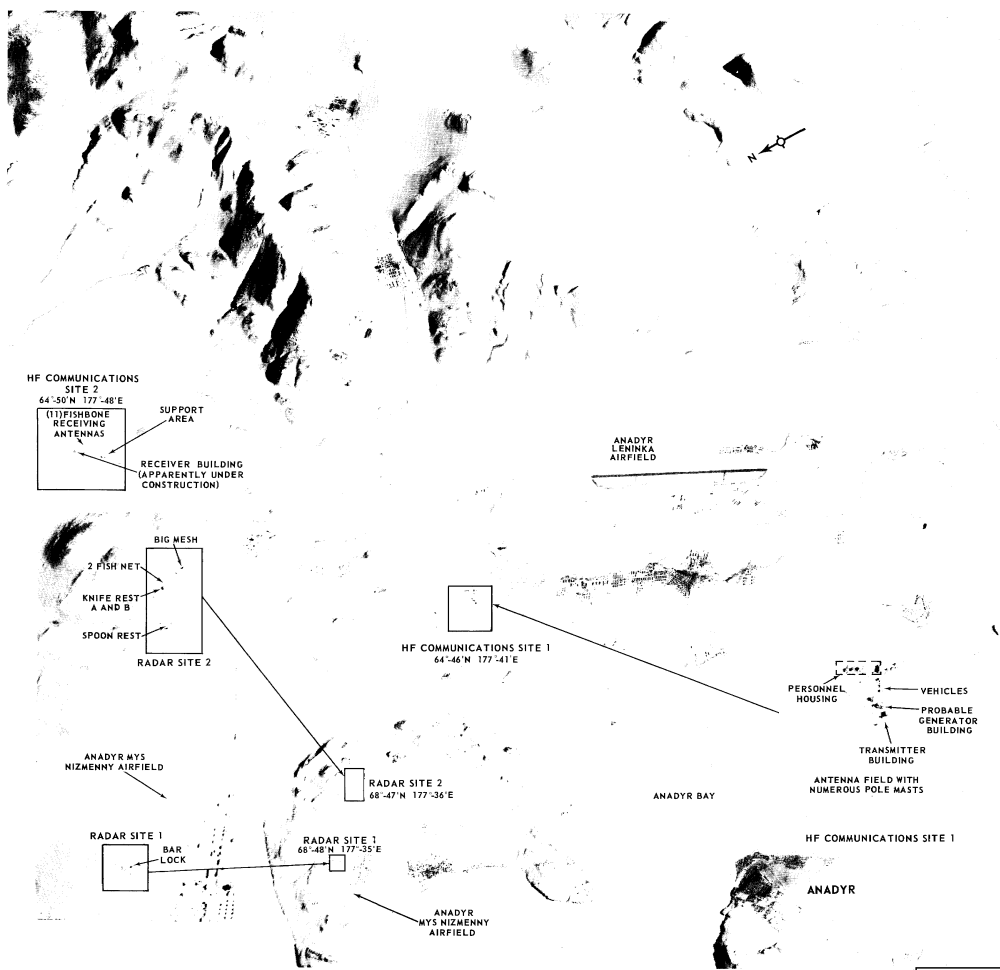


FIGURE 13. ANADYR AIR DEFENSE HEADQUARTERS AREA

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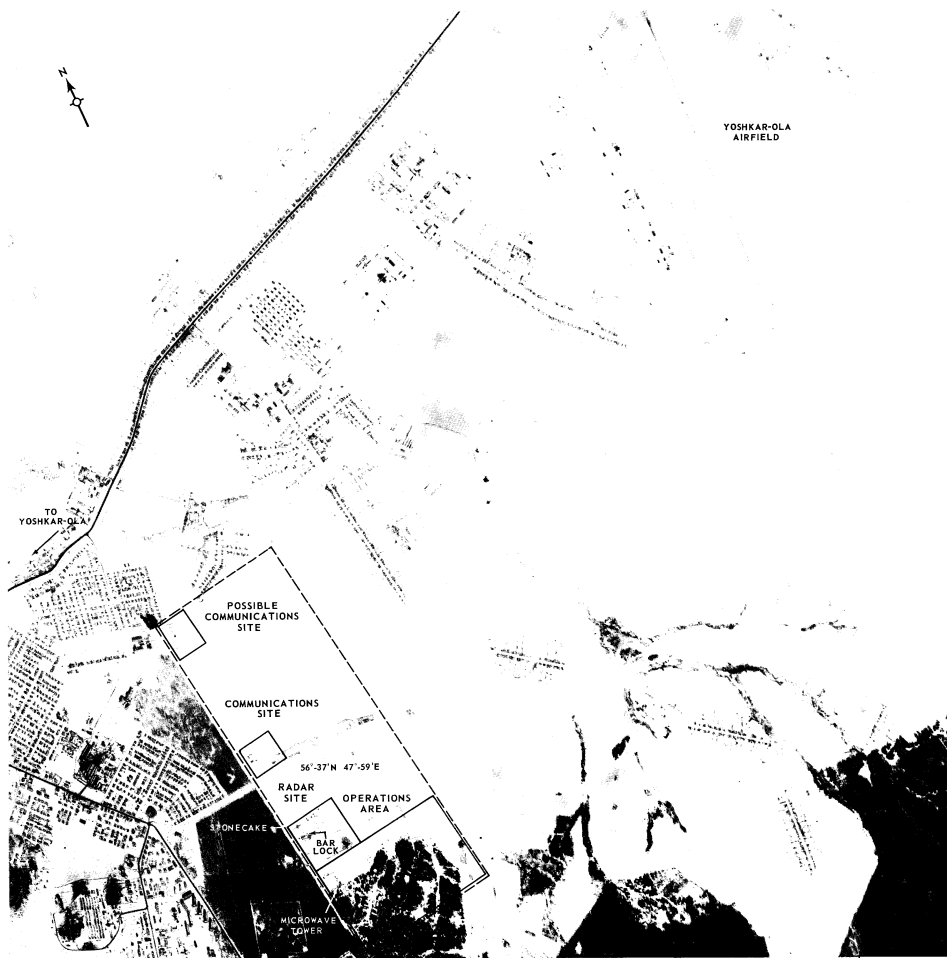


FIGURE 14. YOSHKAR-OLA AIR DEFENSE HEADQUARTERS AREA.

electric generator building, personnel housing, a few small support buildings, and several vehicles.

#### HF Communications Site 2

Location: 7.5 nm NNE of Leninka Airfield

Coordinates: 64-50-20N 177-48-00E

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Remarks: The site consists of a large antenna field having 11 fishbone receiving antennas of the 5-3-3-5 pattern, a receiver building which is apparently under construction, and a small support area. (This antenna field should not be confused with another fishbone antenna field which is situated 6.5 nm to the southeast and is associated with an MRBM missile site.)

#### YOSHKAR-OLA AIR DEFENSE HEADQUARTERS AREA

The installation (Figure 14) is composed of a radar site, an operations area, and one, possibly two, communications sites, all collocated 3 nm southeast of the center of Yoshkar-Ola and 3 nm south-southwest of Yoshkar-Ola Airfield (BENO

The airfield has 31 swept-wing interceptors, a complete GCA system, and a complete ILS system. The operations area is larger than would be expected for just a radar site and, in fact, its size and the number of interceptors at the airfield were the prime reasons for classifying this installation as an air defense headquarters.

#### Radar Site

Coordinates: 56-37-20N 47-59-20E

Remarks: The radar site contains BAR LOCK, STONE CAKE, and other

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antennas not identifiable because of snow glare but of the KNIFE REST-FISH NET type. A quarters building is situated by the BAR LOCK mound. Additional quarters for the radar crew are in woods just southwest of the radar antennas.

#### Operations Area

This area is situated in woods immediately south of the radar site. It contains a large headquarters building, 9 large barracks-type buildings, 3 large buildings of undetermined function, 12 utility-type buildings, and a fenced microwave tower.

#### Communications Sites

The identified site is situated approximately 0.8 nm north-northwest of the operations area. The second, possible site is situated a similar distance and direction beyond the first. Because of extreme snow glare, individual antennas are not visible at either of the two sites and identification of the sites is based on similarities to the ground-ground and ground-air-ground communications sites at Olenegorsk.

### SIAULIAI AIR DEFENSE AIR WARNING SITE

This facility (Figure 15) consists of a radar site and also an operations area which jointly serves Siauliai Airfield (BE [REDACTED]). There are approximately 22 assorted swept- and delta-wing interceptor aircraft at the airfield (heavy and medium bombers were also observed), and Siauliai would have been classified as a headquarters area except that no communications sites could be found.

The operations area, situated northwest of the northwest end of the runway, is very large and includes barracks, headquarters/administration, and aircraft assembly sections.



FIGURE 15. SIAULIAI AIR DEFENSE AIR WARNING SITE, [REDACTED]

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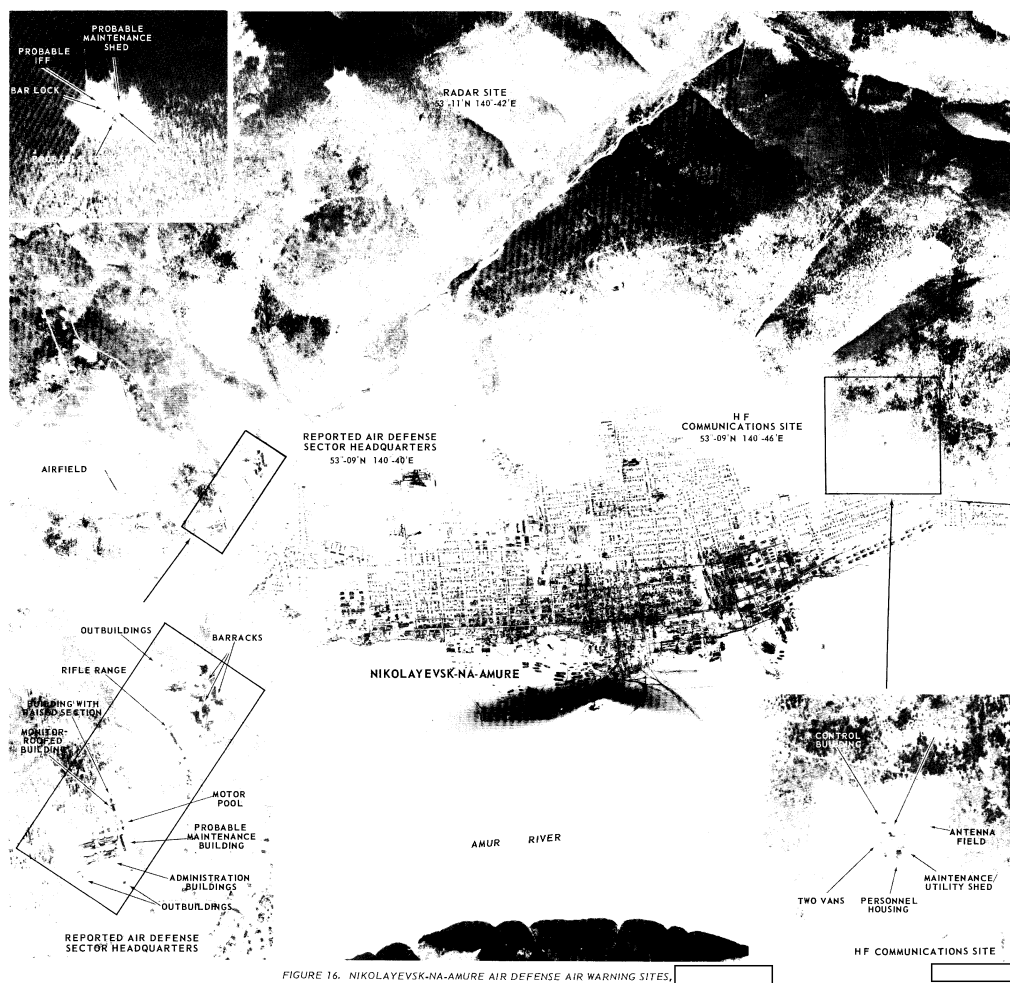


FIGURE 16. NIKOLAYEVSK-NA-AMURE AIR DEFENSE AIR WARNING SITES.

**Radar Site**

Location: 1.6 nm NNE of the center of the runway

Coordinates: 55-55-20N 23-24-40E

Remarks: The radar site contains BAR LOCK and STONE CAKE on mounds, a radar crew quarters building, and several electronic vans. All components except the BAR LOCK are within a fenced area.

**NIKOLAYEVSK-NA-AMURE****AIR DEFENSE  
AIR WARNING SITES**

Situated at various locations in the environs of Nikolayevsk-na-Amure are a radar site, a HF communications site, and a facility referred to in the requirement as a possible air defense sector headquarters (Figure 16). Nothing was noted on the photography to indicate that this area is a sector headquarters, however, and no fighter or interceptor aircraft were seen at Nikolayevsk Airfield.

**Radar Site**

Location: 2.2 nm NNE of Nikolayevsk Airfield

Coordinates: 53-11-00N 140-42-00E

Remarks: The site contains one BAR LOCK, one probable IFF, one piece of unidentified equipment which is a possible height finder, 4 electronic vans, 2 additional vehicles, a probable radar crew quarters building, a probable maintenance shed, and 4 unidentified objects.

**HF Communications Site**

Location: 3.6 nm east of the airfield

Coordinates: 59-09-00N 140-45-50E

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Remarks: The site consists of a large rectangular antenna field and an operational control area. There are an undetermined number of pole masts in the antenna field, but these have no definite configuration which would indicate antenna type. The control area contains a hip-roofed transmitter/receiver control building, a probable generator building, a gable-roofed probable communications personnel housing building, a maintenance/utility shed, 5 small buildings of unidentified function, 2 electronic vans, and 2 pieces of unidentified equipment.

#### Reported Sector Headquarters

Location: 0.3 nm SE of the eastern end of the airfield

Coordinates: 53-08-45N 140-40-20E

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Remarks: This facility, composed of administration and housing sections, is reported on the referenced map as AD Sector Headquarters. The administration section contains 7 large gable-roofed administration buildings; several outbuildings; a monitor-roofed building and a building with a tall, raised section, both of unidentified function; a probable maintenance building; and an adjacent motor pool and open storage area. The housing section consists of 3 large barracks, a few small outbuildings, and a rifle range.

### DIKSON AIR DEFENSE AIR WARNING SITES

Facilities in the Dikson area (Figure 17) consist of a TALL KING radar site with an alternate site, a radar site with BAR LOCK and other antennas, a possible SMALL CROSS navigational antenna, and

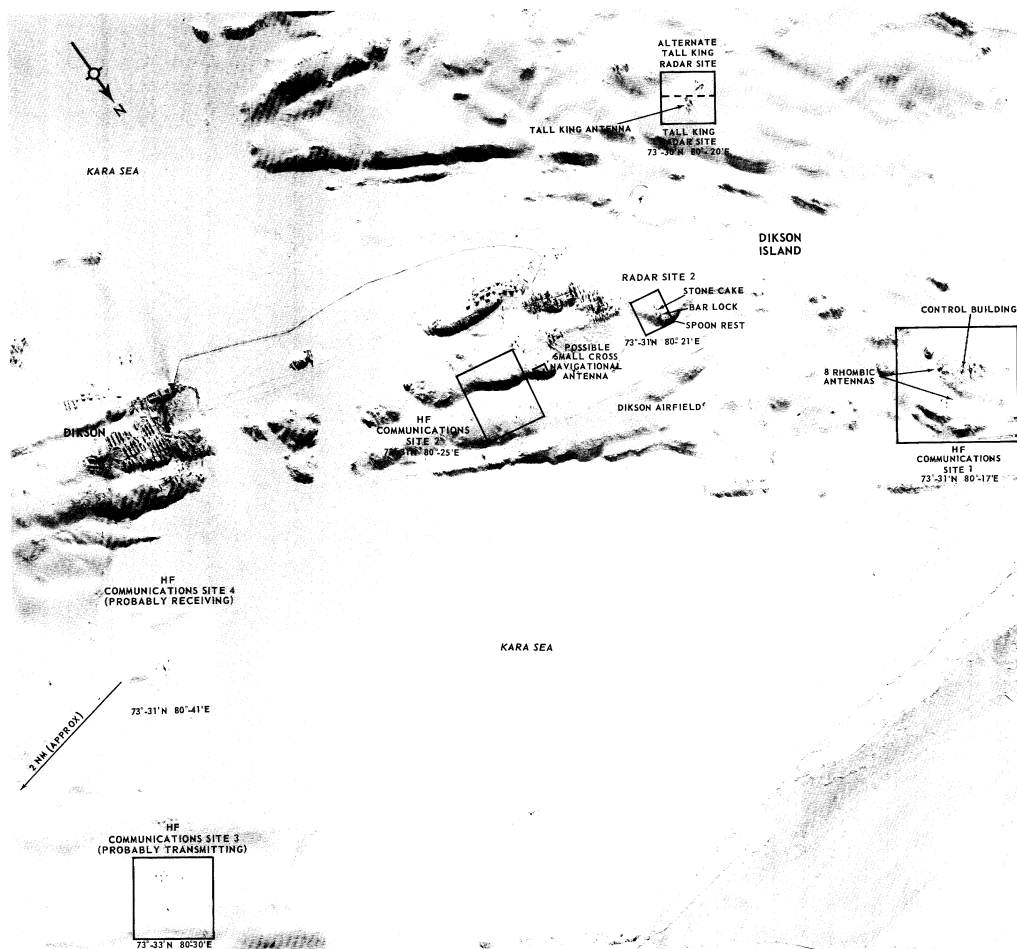


FIGURE 17. DIKSON AREA AIR DEFENSE AIR WARNING SITES.

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4 HF communications sites, 2 of which are probably regional transmitting and receiving sites. No interceptor-type aircraft were observed at Dikson Airfield [redacted] or this installation would have been classified as an air defense headquarters. The photographic reference for the area is [redacted]

TALL KING Radar Site and Alternate Site

Location: 2 nm SW of center of Dikson Airfield  
Coordinates: 73-30N 80-20E  
Remarks: The prime site contains a TALL KING antenna together with a con-

trol building and a diesel-electric generator with fuel-oil storage. The alternate site consists of nearly identical components except that the TALL KING antenna is not observed.

Radar Site 2

Location: 0.7 nm SW of the runway center  
Coordinates: 73-30-50N 80-21-00E  
Remarks: Radar antennas at the site consist of BAR LOCK, SPOON REST, and STONE CAKE.

HF Communications Site 1

Location: 1.7 nm WNW of runway center  
Coordinates: 73-30-45N 80-17-00E  
Remarks: The site consists of 8 double-rhombic antennas, one pair of

guyed vertical radiator broadcast antennas, one two-story control building, 3 maintenance buildings, and 6 sheds.

HF Communications Site 2

Location: 0.8 nm ESE of runway center  
Coordinates: 73-31-00N 80-25-30E  
Remarks: The site contains two rhombic communications antennas.

Possible SMALL CROSS Navigational Antenna

Location: just west of HF communications site 2  
Coordinates: same as site above  
Remarks: The site contains a possible fixed SMALL CROSS UHF DF navigational antenna atop a building with a spire roof.

HF Communications Site 3

Location: on the mainland, 2.5 nm NNE of Dikson  
Coordinates: 73-32-45N 80-30-00E  
Remarks: The site consists of six pole masts grouped around a centrally located control building, and a support area just to the west which contains six buildings. This is probably a transmitting site.

HF Communications Site 4

Location: 3.2 nm ENE of Dikson  
Coordinates: 73-31-30N 80-41-30E  
Remarks: Grouped around a centrally located control building are six pole masts having no particular antenna configuration. In addition, there are three support buildings and several small sheds. This is probably a receiving site.

REFERENCES

MAPS OR CHARTS

- Olenegorsk: DIA. US Air Target Chart, Series 200, Sheet 0051-23HL, 3d ed, Sep 63, scale 1:200,000 (SECRET)
- Naryan-Mar: SAC. US Air Target Chart, Series 200, Sheet 0093-2A, 1st ed, Apr 59, scale 1:200,000 (SECRET)
- Dikson: SAC. US Air Target Chart, Series 200, Sheet 0046-16A, 1st ed, Sep 59, scale 1:200,000 (SECRET)
- Mys Shmidt: SAC. US Air Target Chart, Series 200, Sheet 0065-19A, 1st ed, Jun 58, scale 1:200,000 (SECRET)
- Anadyr: DIA. US Air Target Chart, Series 200, Sheet 0075-21A, 2d ed, Jan 59, scale 1:200,000 (SECRET)
- Nikolayevsk-Na-Amure: ACIC. US Air Target Chart, Series 200, Sheet 0196-17HL, 2d ed, Mar 62, scale 1:200,000 (SECRET)
- Zhigansk: ACIC. US Air Target Chart, Series 200, Sheet 0071-7AL, 1st ed, Sep 60, scale 1:200,000 (SECRET)
- Yoshkar-Ola: DIA. US Air Target Chart, Series 200, Sheet 0155-22HL, 3d ed, Feb 63, scale 1:200,000 (SECRET)
- Ulyanovsk: ACIC. US Air Target Chart, Series 200, Sheet 0165-11A, 2d ed, Jan 60, scale 1:200,000 (SECRET)
- Siauliai: SAC. US Air Target Chart, Series 200, Sheet 0168-2HL, 2d ed, Jul 62, scale 1:200,000 (SECRET)

DOCUMENTS

- 1. NPIC. R-299/64, *Circumferential Radar Sites, Leningrad, USSR*, May 64 (TOP SECRET [redacted])
- 2. USAF. DPIR T 59-T, *Advanced Design Soviet Air Defense System at Krasnovodsk Airfield, USSR*, Feb 59 (TOP SECRET [redacted])
- 3. USAF. 2/I/CMRUK/R2-64, 27 Jan 64 (SECRET [redacted])
- 4. NPIC. R-61/64 [redacted] (SECRET [redacted])
- 5. NPIC. R-201/64, *OAK-Part II*, [redacted] p 33, Mar 64 (TOP SECRET [redacted])

REQUIREMENTS

NPIC PROJECT  
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